

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for remotely configuring at least one mobile device comprising:

storing at a middleware server at least one configuration parameter relating to a software application, wherein each of the configuration parameters specifies configuration information as a function of the application;

storing, at the middleware server, in a descriptor file a registry for each of the at least one mobile device, each registry maintaining application resources and configuration parameters relating to each software application that are currently installed on the each of the at least one mobile device;

receiving at the middleware server a synchronization request from a mobile device participating in a particular application, the synchronization request to include a device identification (ID);

determining an associated configuration parameter for the mobile device as a function of the particular application;

determining an associated device profile for the mobile device as a function of the device ID;

querying, in the descriptor file, the registry associated with the mobile device to determine whether to configure the mobile device using the determined associated configuration parameter;

retrieving, from an application resources database, an application resource to be deployed to the mobile device using a generated resource identifier (ID), comprising: wherein the generated resource ID is generated

traversing a hierarchical class architecture corresponding to the particular application to identify a computing entity class having a device ID field value that matches the device ID received in the synchronization request;

mapping the device ID field value of the computing entity class to a resource type class having a device ID field value that matches the computing entity class device ID field value;

returning a resource type ID stored in a resource type ID field of the resource type class; and

generating the resource ID from the returned resource type ID, the associated device profile and the associated configuration parameter; and
~~from both the associated device profile and the associated configuration parameter; and~~
initiating a process to configure the mobile device using the retrieved application resource.

2. (Previously Presented) The method according to claim 1, wherein initiating a process to configure the mobile device as a function of the associated configuration parameter includes transmitting device specific configuration files to the mobile device as a function of the associated configuration parameter.
3. (Previously Presented) The method according to claim 1, wherein the associated device profile relates to at least one of a hardware profile and a software profile.
4. (Previously Presented) The method according to claim 2, wherein initiating a process to configure the mobile device further includes receiving a device registry file from the mobile device; determining device specific files appropriate for the mobile device as a function of the associated configuration parameter and the device registry associated with the mobile device.
5. (Original) The method according to claim 1, wherein each of the configuration parameters associates the application with at least one configuration option.
6. (Original) The method according to claim 5, wherein the at least one configuration option includes at least one of power settings, menu options and application settings.
7. (Previously Presented) The method according to claim 1, wherein the at least one mobile device includes at least one of a laptop computer and a PDA ("Personal Digital Assistant").
8. (Currently Amended) A system for remotely configuring at least one mobile device

comprising:

a middleware server, wherein the middleware server stores device specific configuration files and configuration parameters, the configuration parameters associating a network application with at least one configuration option;

a descriptor file stored in the middleware server to store a registry for each of the at least one mobile device, each registry maintaining the device specific configuration files and configuration parameters relating to the network application that are currently installed on the each of the at least one mobile device; and

a configuration module, wherein the configuration module:

receives a configuration request from a particular mobile device;

determines associated device specific configuration files appropriate for the particular mobile device;

queries, in the descriptor file, the registry associated with the particular mobile device to determine whether the associated device specific configuration files are already installed on the mobile device; and

generates a resource identifier (ID), comprising: from both a device profile associated with the particular mobile device and the determined associated device specific configuration files

traversing a hierarchical class architecture corresponding to the particular application to identify a computing entity class having a device ID field value that matches the device ID received in the synchronization request;

mapping the device ID field value of the computing entity class to a resource type class having a device ID field value that matches the computing entity class device ID field value;

returning a resource type ID stored in a resource type ID field of the resource type class; and

generating the resource ID from the returned resource type ID, the associated device profile and the associated configuration parameter; and [[;]]

a deployment module, wherein the deployment module:

retrieves, from an application resources database, the associated device specific configuration files using the generated resource ID, and

initiates a deployment of the associated device specific configuration files for the particular mobile device.

9. (Previously Presented) The system according to claim 8, wherein the network application includes the collective behavior of a plurality of mobile devices and each mobile device is associated with a device profile including at least one of a hardware profile and a software profile.

10. (Previously Presented) The system according to claim 9, wherein determining associated device specific configuration files further includes

determining a particular network application associated with the particular mobile device;

determining configuration options for the particular mobile device participating in the network application using the configuration parameters;

determining the device specific configuration files as a function of the device profile for the particular mobile device.

11. (Previously Presented) The system according to claim 8, wherein the at least one mobile device includes at least one of a laptop computer, a PDA ("Personal Digital Assistant") and a desktop computer.

12. (Original) The system according to claim 8, wherein the at least one configuration option includes at least one of power settings, menu options and application settings.

13. (Currently Amended) A program storage device including instructions for remotely configuring at least one mobile device comprising:

storing at a middleware server at least one configuration parameter for each the at least one mobile device, wherein each of the configuration parameters specifies configuration information as a function of a device profile;

storing, at the middleware server, in a descriptor file a registry for each of the at least one mobile device, each registry maintaining application resources and configuration

parameters relating to each software application that are currently installed on the each of the at least one mobile device;

receiving at the middleware server a synchronization request from a first mobile device participating in a particular application, the synchronization request to include device identification (ID);

determining an associated configuration parameter for the first mobile device as a function of the associated application;

determining an associated device profile for the mobile device as a function of the device ID;

querying, in the descriptor file, the registry associated with the first mobile device to determine whether to configure the first mobile device using the determined associated configuration parameter;

retrieving, from an application resources database, an application resource to be deployed to the mobile device using a generated resource identifier (ID), comprising:

traversing a hierarchical class architecture corresponding to the particular application to identify a computing entity class having a device ID field value that matches the device ID received in the synchronization request;

mapping the device ID field value of the computing entity class to a resource type class having a device ID field value that matches the computing entity class device ID field value;

returning a resource type ID stored in a resource type ID field of the resource type class; and

generating the resource ID from the returned resource type ID, the associated device profile and the associated configuration parameter; and
~~wherein the generated resource ID is generated from both the associated device profile and the associated configuration parameter; and~~

initiating a process to configure the first mobile device using the retrieved application resource.

14. (Previously Presented) The program storage device according to claim 13, wherein initiating a process to configure the first mobile device as a function of the associated

configuration parameter includes transmitting device specific configuration files to the first mobile device as a function of the associated configuration parameter.

15. (Previously Presented) The program storage device according to claim 13, wherein the associated device profile relates to at least one of a hardware profile and a software profile.

16. (Previously Presented) The program storage device according to claim 14, wherein initiating a process to configure the first mobile device further includes receiving a device registry file from the first mobile device; determining device specific files appropriate for the first device as a function of the associated configuration parameter and the device registry associated with the first mobile device.

17. (Original) The method according to claim 13, wherein each of the configuration parameters associates a network application with at least one configuration option.

18. (Original) The method according to claim 17, wherein the at least one configuration option includes at least one of power settings, menu options and application settings.

19. (Previously Presented) The method according to claim 13, wherein the mobile devices include at least one of a laptop computer and a PDA ("Personal Digital Assistant").

20. (Currently Amended) A method for deploying application resources to a mobile device comprising:

storing, at a middleware server, in a descriptor file a registry for each of at least one mobile device, each registry maintaining application resources and configuration parameters relating to each software application that are currently installed on each of the at least one mobile device;

receiving at the middleware server a synchronization request from a mobile device running an application, the synchronization request including a device identification (ID);

determining a device profile as a function of the device ID;

retrieving a configuration parameter associated with the application;

generating a resource ID, comprising:

traversing a hierarchical class architecture corresponding to the particular application to identify a computing entity class having a device ID field value that matches the device ID received in the synchronization request;

mapping the device ID field value of the computing entity class to a resource type class having a device ID field value that matches the computing entity class device ID field value;

returning a resource type ID stored in a resource type ID field of the resource type class; and

generating the resource ID from the returned resource type ID, the device profile and the configuration parameter;

~~from both the device profile and the configuration parameter;~~

querying, in the descriptor file, the registry associated with the mobile device to determine whether application resources corresponding to the generated resource ID are already installed on the mobile device;

using the resource ID to retrieve the application resources from an application resource database; and

initiating a process to install the application resources on the mobile device.